

GILA RIVER BASIN
09460150 FRYE CREEK NEAR THATCHER, AZ

LOCATION--Lat 32°44'38", long 109°50'15", in NE_{1/4} sec. 13, T.8 S., R.24 E. (unsurveyed), Graham County, Hydrologic Unit 15040005, in Coronado National Forest, on left bank 8.5 mi southwest of Thatcher.

DRAINAGE AREA--4.02 mi². (Area at site used 1966-76, 3.91 mi².)

PERIOD OF RECORD--Dec. 1966 to Sept. 1976, Dec. 1988 to current year.

REVISED RECORDS--WRD AZ 1968: Drainage area.

GAGE--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 5,580 ft above sea level, from topographic map. Prior to Dec. 1988, at site 0.25 mi upstream at different datum.

REMARKS--Records fair, except estimated daily discharges, which are poor. No regulation or diversion above station. city of Safford diverts water from Frye Mesa Reservoir 1 mi downstream for municipal supply.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 2,260 ft³/s, Aug. 17, 2004, gage height, 6.94 ft, from floodmark and from rating curve extended above 2,000 ft³/s; no flow at times in most years.

EXTREMES FOR CURRENT YEAR--Peak discharge greater than base discharge of 8.0 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 13	0345	26	1.28	Aug. 4	1300	1,040	4.88
May 7	2200	8.2	1.00	Aug. 15	1845	108	2.38
July 27	2045	1,400	3.69	Aug. 17	1830	*2,260	6.94
Aug. 2	1830	9.1	1.02				

Minimum daily discharge, no flow on Nov. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.04	0.47	0.26	0.46	0.77	2.7	5.1	1.1	0.08	0.24	0.36
2	0.04	0.04	0.45	0.25	0.45	0.80	3.7	4.9	1.0	0.08	1.0	e0.36
3	0.03	0.02	0.45	0.23	0.43	0.80	4.2	5.1	0.92	0.07	0.86	0.37
4	0.03	0.01	0.40	0.22	0.39	1.2	4.0	5.5	0.83	0.07	e43	e0.32
5	0.03	0.02	0.39	0.22	0.39	1.4	4.1	6.4	0.78	0.07	e9.2	e0.25
6	0.03	0.02	0.39	0.22	0.38	1.5	4.7	7.2	0.73	0.06	e1.0	e0.20
7	0.03	0.02	0.34	0.22	0.37	2.0	4.7	7.5	0.72	0.06	e0.55	e0.15
8	0.04	0.02	0.34	0.22	0.36	2.5	4.8	7.6	0.64	0.06	e0.43	e0.12
9	0.04	0.02	0.33	0.22	0.35	3.0	4.4	7.4	0.56	0.06	e0.36	e0.11
10	0.04	0.02	0.36	0.22	0.34	3.3	4.2	7.1	0.52	0.08	e0.26	0.11
11	0.04	0.02	0.39	0.22	0.34	3.9	4.2	6.7	0.49	0.07	e0.21	0.11
12	0.04	0.00	0.39	0.22	0.34	4.0	3.8	6.0	0.46	0.07	e0.19	0.10
13	0.04	7.8	0.36	0.22	0.34	3.4	3.7	5.4	0.43	0.06	e0.41	0.12
14	0.04	1.9	0.35	0.29	0.34	3.0	3.8	4.7	0.39	0.05	e0.33	0.12
15	0.04	1.1	0.34	0.27	0.34	2.9	3.8	4.3	0.35	0.10	e5.5	0.13
16	0.03	0.95	0.34	0.24	0.34	2.8	3.5	4.0	0.31	0.06	e4.5	0.12
17	0.03	0.88	0.34	0.29	0.33	2.6	3.5	3.6	0.29	0.04	e56	0.13
18	0.03	0.80	0.34	0.42	0.34	2.5	3.7	3.3	0.26	0.04	e3.5	0.20
19	0.03	0.75	0.32	0.51	0.33	2.4	3.6	3.1	0.22	0.04	e0.39	e0.22
20	0.03	0.69	0.30	0.52	0.33	2.4	3.4	2.9	0.21	0.04	e0.33	e0.24
21	0.03	0.69	0.30	0.48	0.34	2.5	3.3	2.7	0.19	0.04	e0.33	e0.26
22	0.03	0.62	0.30	0.52	0.37	4.2	3.3	2.5	0.17	0.05	e0.33	e0.28
23	0.02	0.59	0.29	0.50	0.40	4.7	3.5	2.4	0.16	0.07	e0.33	0.30
24	0.02	0.54	0.28	0.53	0.39	4.5	3.4	2.2	0.14	0.06	e0.33	0.29
25	0.02	0.52	0.26	0.53	0.42	4.2	3.6	2.0	0.12	0.07	e0.33	0.58
26	0.03	0.52	0.26	0.58	0.45	3.5	3.8	1.9	0.11	0.07	e0.40	0.47
27	0.03	0.49	0.26	0.59	0.46	3.0	4.3	1.8	0.10	38	0.27	0.37
28	0.03	0.49	0.26	0.55	0.47	2.7	4.9	1.6	0.09	1.4	0.26	0.33
29	0.03	0.48	0.26	0.52	0.63	2.5	5.4	1.4	0.09	0.94	0.28	0.35
30	0.03	0.48	0.26	0.51	---	2.4	5.5	1.3	0.08	0.55	0.31	0.32
31	0.04	---	0.26	0.48	---	2.4	---	1.2	---	0.27	0.36	---
TOTAL	1.01	20.54	10.38	11.27	11.22	83.77	119.5	128.8	12.46	42.78	131.79	7.39
MEAN	0.03	0.68	0.33	0.36	0.39	2.70	3.98	4.15	0.42	1.38	4.25	0.25
MAX	0.04	7.8	0.47	0.59	0.63	4.7	5.5	7.6	1.1	38	56	0.58
MIN	0.02	0.00	0.26	0.22	0.33	0.77	2.7	1.2	0.08	0.04	0.19	0.10
AC-FT	2.0	41	21	22	22	166	237	255	25	85	261	15
CFSM	0.01	0.17	0.08	0.09	0.10	0.67	0.99	1.03	0.10	0.34	1.06	0.06
IN.	0.01	0.19	0.10	0.10	0.10	0.78	1.11	1.19	0.12	0.40	1.22	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

(WY)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	1.05	1.30	0.86	1.62	1.53	2.14	2.75	4.48	1.82	1.22	0.97	0.98
MAX	9.74	9.26	4.43	13.7	11.3	10.9	9.37	17.0	7.37	6.81	4.25	6.85
MIN	0.03	0.09	0.11	0.17	0.13	0.04	0.01	0.00	0.00	0.00	0.00	0.00

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1990 - 2004

ANNUAL TOTAL	156.75	580.91	
ANNUAL MEAN	0.43	1.59	1.73
HIGHEST ANNUAL MEAN			5.02
LOWEST ANNUAL MEAN			0.17
HIGHEST DAILY MEAN	7.8	Nov 13	1995
LOWEST DAILY MEAN	0.00	Aug 6	1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 9	1990
ANNUAL RUNOFF (AC-FT)	311	1150	1250
ANNUAL RUNOFF (CFSM)	0.107	0.395	0.430
ANNUAL RUNOFF (INCHES)	1.45	5.38	5.84
10 PERCENT EXCEEDS	1.2	4.2	3.9
50 PERCENT EXCEEDS	0.11	0.37	0.43
90 PERCENT EXCEEDS	0.00	0.04	0.03